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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/521,953	01/21/2005	Jiangron Qiu	3824-050244	1966
28289	7590	06/15/2006	EXAMINER	
THE WEBB LAW FIRM, P.C. 700 KOPPERS BUILDING 436 SEVENTH AVENUE PITTSBURGH, PA 15219				RAHLL, JERRY T
ART UNIT		PAPER NUMBER		
		2874		

DATE MAILED: 06/15/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/521,953	QIU ET AL.
	Examiner Jerry T. Rahill	Art Unit 2874

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 16 March 2006.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 11-19 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 11-19 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 3/16/06 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 3/16/06.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application (PTO-152)

6) Other: _____.

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 16 March 2006 is being considered by the examiner. Please note attached form PTO-1449.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 11-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent Application Publication 2003/0002803 to Trezza et al.

5. Regarding Claim 11, Trezza et al. describes an optical connector (see Fig 10A) having a plurality of holes (1510) for inserting optical fibers and provided at predetermined intervals, where the optical connector substrate is formed of a glass ceramic material (see paragraph 0079). See Further Figures 10A-15 and paragraphs 0078-0112).

6. Trezza et al. does not specifically describe the accuracy of the center-to-center dimension as within 0.5 μ m or the degree of parallelization of the hole axis within 0.1 degree. However, it would have been obvious to one of ordinary skill in the art at the time of invention to use such accuracies, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980). The motivation for doing so would have been to reduce insertion error and to reduce optical losses at insertion.

7. Regarding Claim 12, Trezza et al. describes the insertion holes in a 2-D honeycomb form (see Fig 10A).

8. Regarding Claim 13, Trezza et al. describes the insertion holes tapered (1506) at the optical fiber insertion side.

9. Regarding Claim 14, Trezza et al. describes the optical connector as a ferrule (see Fig 11).

10. Regarding Claim 15, Trezza et al. describes fixing a substrate (1500) for the optical connector and forming insertion holes with regulated hole axis direction by pulsed laser beam (see paragraph 0090). Trezza does not specifically describe regulating the hole axis direction of the optical fiber insertion side, but such regulation would be inherent to the process to ensure that the manufacturing process had its intended affect upon the substrate.

11. Regarding Claim 16, Trezza et al. describes shaping the end of the insertion holes into a taper (see paragraph 0119).

12. Regarding Claim 17, Trezza et al. describes etching the inner wall of the insertion holes and taper part (see Fig 0119).

13. Regarding Claim 18, Trezza et al. does not specifically describe the laser beam as a femtosecond laser beam. However, such laser beams are well-known in the art for laser beam machining. It would have been obvious to one of ordinary skill in the art to use such a femtosecond laser beam for precise control of the machining process.

14. Regarding Claim 19, Trezza et al. describes the etching carried out using hydrofluoric acid and nitric acid (see paragraph 0091).

Response to Arguments

15. Applicant's arguments filed 16 March 2006 have been fully considered but they are not persuasive. Applicant argues that dimension parameters are not a result effective variable. However, dimension parameters are commonly recognized in the art to affect properties of a connector. Such affected properties include the insertion force and component alignment. Therefore, dimension parameters are a result effective variable.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

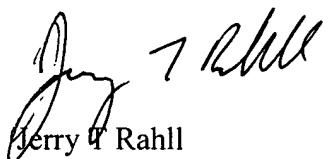
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

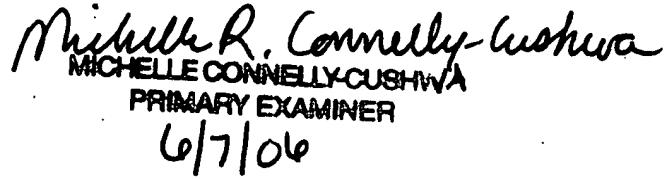
however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerry T. Rahll whose telephone number is (571) 272-2356. The examiner can normally be reached on M-Th (8:30-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Jerry T. Rahll


MICHELLE CONNELLY-CUSHWA
PRIMARY EXAMINER
6/7/06